

IN THE CLAIMS:

Please amend the claims as follows:

1-21. (Cancelled)

22. (Currently Amended) An intermittent injection aerosol product for skin of a human being, comprising an intermittent aerosol dispersing device and an aerosol composition, wherein said intermittent aerosol dispersing device comprises: ~~dispensing device for application of a product to skin of a human being, comprising~~

a cylinder adapted to be secured atop an aerosol can, said cylinder communicating with said product, pressurized in said can, via a port;

a piston forming a nozzle and adapted to reciprocate with respect to said cylinder; and

a needle valve adapted to intermittently engage against an inner surface of said piston, said piston and needle valve defining therebetween

a pressure chamber adapted to receive pressurized product, via said port, from said aerosol can, said pressurized product moving said piston and needle valve away from said port;

first coil spring, once differential pressure between said port and said pressure chamber has decreased, to urge said needle valve away from said piston, thereby venting said pressure chamber via said nozzle to ambient air for a predetermined injection time interval, and

second coil spring, once differential pressure between said pressure chamber and ambient air has decreased, to urge said piston against said needle valve for a predetermined stop time interval;

wherein, by appropriate selection of a spring constant of said second coil spring,

a ratio of an injection time to a stop time is set to 0.1 to 5.0 and a cycle of injection and stop is set to 1 to 25 times per second, when a valve is opened, in order to obtain a ~~sufficient yet not excessive~~ cooling and/or massage effect on the skin, and

wherein said aerosol composition comprises the product contains 20 to 70 % by weight of a liquefied gas ~~in an aerosol composition~~, and an effective compound selected

from moisturizing agent, an ultraviolet absorber, a skin softener, an amino acid, a vitamin, a hormone, an antioxidant, an extracted solution, a fungicide, an antiseptic, a deodorant, an antiperspirant, an anodyne and antiphlogistic, a refrigerant, an astringent, an anti-inflammatory, a local anesthetic, an antihistaminic, a whitening agent, a chemical for tonic, a repellant, or a perfume.

23 (Cancelled)

24. (Currently Amended) An intermittent injection aerosol product for skin of a human being, comprising an intermittent aerosol dispersing device and an aerosol composition, wherein said intermittent aerosol dispersing device comprises: dispensing device for application of a product to skin of a human being, comprising

a cylinder adapted to be secured atop an aerosol can, said cylinder communicating with said product, pressurized in said can, via a port;

a piston forming a nozzle and adapted to reciprocate with respect to said cylinder;
and

a needle valve adapted to intermittently engage against an inner surface of said piston, said piston and needle valve defining therebetween

a pressure chamber adapted to receive pressurized product, via said port, from said aerosol can, said pressurized product moving said piston and needle valve away from said port;

first coil spring, once differential pressure between said port and said pressure chamber has decreased, to urge said needle valve away from said piston, thereby venting said pressure chamber via said nozzle to ambient air for a predetermined injection time interval, and

second coil spring, once differential pressure between said pressure chamber and ambient air has decreased, to urge said piston against said needle valve for a predetermined stop time interval;

wherein, by appropriate selection of a spring constant of said second coil spring, a ratio of an injection time to a stop time is set to 0.1 to 2.0 and a cycle of injection and

stop is set to 1 to 25 times per second, when a valve is opened, in order to obtain a ~~sufficient yet not excessive~~ cooling and/or massage effect on the skin,

wherein ~~said aerosol composition comprises the product contains~~ 0.1 to 5% by weight of a compressed gas ~~in an aerosol composition, and an effective compound~~ selected from moisturizing agent, an ultraviolet absorber, a skin softener, an amino acid, a vitamin, a hormone, an antioxidant, an extracted solution, a fungicide, an antiseptic, a deodorant, an antiperspirant, an anodyne and antiphlogistic, a refrigerant, an astringent, an anti-inflammatory, a local anesthetic, an antihistaminic, a whitening agent, a chemical for tonic, a repellant, or a perfume.

25. (CANCELLED)

26. (Currently Amended) The intermittent aerosol ~~dispensing device product~~ according to claim ~~25~~ 22, wherein the product is used for a massage agent, a cleansing agent, an anodyne and antiphlogistic, or a tonic, ~~and~~ ~~wherein the effective compound is selected from a moisturizing agent, an ultraviolet absorber, a skin softener, an amino acid, a vitamin, a hormone, an antioxidant, an extracted solution, a fungicide, an antiseptic, a deodorant, an antiperspirant, an anodyne and antiphlogistic, a refrigerant, an astringent, an anti-inflammatory, a local anesthetic, an antihistaminic, a whitening agent, a chemical for a tonic, a repellant, or a perfume.~~

27. (CANCELLED)

28. (Currently Amended) The intermittent aerosol ~~dispensing device product~~ according to claim ~~27~~ 24, wherein the product is used for a massage agent, a cleansing agent, an anodyne and antiphlogistic, or a tonic, ~~and~~ ~~wherein the effective compound is selected from a moisturizing agent, an ultraviolet absorber, a skin softener, an amino acid, a vitamin, a hormone, an antioxidant, an extracted solution, a fungicide, an antiseptic, a deodorant, an antiperspirant, an anodyne and antiphlogistic, a refrigerant, an astringent, an anti-inflammatory, a local anesthetic, an antihistaminic, a whitening agent, a chemical for a tonic, a repellant, or a perfume.~~